

DNAL1 cDNA

Catalog Number: ATGD0340

PRODUCT INFORMATION

Catalog number

ATGD0340

Product type

cDNA

Species

Human

NCBI Accession No.

NP_113615.2

Alternative Names

C14orf168, CILD16

mRNA Refseq

NM_031427.3

OMIM

610062

Chromosome location

14q24.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

573bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Nde I to Hind III. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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DNAL1 is an axonemal dynein light chain which functions as a component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. DNAL1 is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. Alternate splicing results in multiple transcript variants.

DATA

Sequence nucleotides

ATGGCGAAAGCAACAACAATCAAAGAAGCCTTAGCGAGATGGGAAGAGAAAAGCTGGCCAGAGGCCATCTGAAGCCAAAGA
GATAAACTTTATGCCAGATTCCCCCTATAGAGAAGATGGATGCATCCTTGTCCATGCTTGCTAATTGCGAGAAGCTTTTAC
TGTCTACAACTGCATTGAAAAAATTGCCAACCTGAATGGCTTAAAAAAGCTGAGGATATTATCTTTAGGAAGAAACAACATA
AAGAACTTAAATGGACTGGAGGCAGTAGGGGACACATTAGAAGAAGTGTGGATCTCCTACAATTTTATTGAGAAGTTGAAAG
GGATCCACATAATGAAGAAATTGAAGATTCTCTACATGTCTAATAACCTGGTAAAAGACTGGGCTGAGTTTGTGAAGCTGGC
AGAACTGCCATGCCTCGAAGACCTGGTGTGTTGTAGGCAATCCCTTGGAAGAGAAACATTCTGCTGAGAATAACTGGATTGAA
GAAGCAACCAAGAGAGTGCCCAAACTGAAAAAGCTGGATGGTACTCCAGTAATTAAGGGGATGAGGAAGAAGACAACATAA

Transaction Sequence

MAKATTIKEA LARWEEKTGQ RPSEAKEIKL YAQIPPIEKM DASLSMLANC EKLSLSTNCI EKIANLNLGLK NLRILSLGRN
NIKNLNGLEA VGDITLEELWI SYNFIEKLKG IHIMKKLKIL YMSNNLVKDW AEFVKLAELP CLEDLVFVGN PLEEKHSAEN
NWIEEATKRV PKLKKLDGTP VIKGDEEEDN